

KCIN:071

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 7175-69374	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 01/44194	International filing date (day/month/year) 27/11/2001	(Earliest) Priority Date (day/month/year) 29/11/2000
Applicant HILL-ROM SERVICES, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

17

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 01/44194

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61M27/00 A61M1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61M A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
✓ X	WO 00 42958 A (3M INNOVATIVE PROPERTIES CO) 27 July 2000 (2000-07-27) page 16, paragraph 2; figure 6J page 20, line 8 - line 10; figure 7A	1-8, 12, 25-39
✓ X	US 5 549 584 A (GROSS JAMES R) 27 August 1996 (1996-08-27) column 5, line 16 - line 31 column 7, line 27 - line 37; figure 4	1-8, 12, 25-39
A	---	15, 24
✓ X	US 5 636 643 A (ARGENTA LOUIS C ET AL) 10 June 1997 (1997-06-10) cited in the application column 10, line 5 - line 7 column 6, line 7 column 5, line 44 figures 2, 10, 11	1-4, 6, 7, 25-39

	---/---	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

2 December 2002

Date of mailing of the international search report

09/12/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lakkis, A

INTERNATIONAL SEARCH REPORT

International Publication No.
PCT/US 01/44194

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
✓ X	US 4 969 880 A (ZAMIEROWSKI DAVID S) 13 November 1990 (1990-11-13) cited in the application column 8, line 3 - line 6; figure 10 ----	1-4,6,7, 25-39
✓ A	WO 00 07653 A (HENLEY ALAN WAYNE ;MOSES LEIGH MARIE (US); SANDERSON RONALD LESLIE) 17 February 2000 (2000-02-17) cited in the application page 14, line 5 - line 23 page 15, line 28 - line 32 figures 1,3,4 ----	1,25,36, 40
✓ X	EP 0 880 953 A (FLEISCHMANN WILHELM DR MED) 2 December 1998 (1998-12-02) column 5, line 22 - line 26 column 5, line 50 -column 6, line 8 figures 1,2 ----	40
A	GB 2 333 965 A (KCI MEDICAL LTD) 11 August 1999 (1999-08-11) page 6, line 27 -page 7, line 3 ----	5
P,X	WO 01 37922 A (HENLEY ALAN WAYNE ;PETROSENKO ROBERT (US); SANDERSON RONALD LESLIE) 31 May 2001 (2001-05-31) cited in the application page 15, paragraph 2; figure 9 -----	1-4,6,7, 25-39

INTERNAT. L SEARCH REPORT

Information on patent family members

Internatio. ication No
PCT/US 01/44194

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0042958	A	27-07-2000	US 6420622 B1 16-07-2002 AU 4190599 A 07-08-2000 EP 1146838 A1 24-10-2001 JP 2002535039 T 22-10-2002 US 2002082540 A1 27-06-2002 WO 0042958 A1 27-07-2000 US 2002128578 A1 12-09-2002
US 5549584	A	27-08-1996	NONE
US 5636643	A	10-06-1997	US 5645081 A 08-07-1997 AT 196235 T 15-09-2000 AU 696031 B2 27-08-1998 AU 6360894 A 26-09-1994 CA 2157772 A1 15-09-1994 DE 69425881 D1 19-10-2000 DE 69425881 T2 22-03-2001 DK 688189 T3 27-12-2000 EP 0688189 A1 27-12-1995 ES 2151925 T3 16-01-2001 GR 3034817 T3 28-02-2001 JP 9503923 T 22-04-1997 PT 688189 T 28-02-2001 WO 9420041 A1 15-09-1994 US 2001029956 A1 18-10-2001 AT 164055 T 15-04-1998 AU 674837 B2 16-01-1997 AU 3130393 A 15-06-1993 CA 2121688 A1 27-05-1993 DE 9219136 U1 18-06-1998 DE 69224847 D1 23-04-1998 DE 69224847 T2 20-08-1998 DK 620720 T3 28-09-1998 EP 0620720 A1 26-10-1994 ES 2114956 T3 16-06-1998 JP 7501958 T 02-03-1995 WO 9309727 A1 27-05-1993
US 4969880	A	13-11-1990	AT 146980 T 15-01-1997 AU 654468 B2 10-11-1994 AU 5521890 A 05-11-1990 CA 2049948 A1 04-10-1990 DE 69029578 D1 13-02-1997 DE 69029578 T2 05-06-1997 EP 0465601 A1 15-01-1992 JP 4506011 T 22-10-1992 JP 3152398 B2 03-04-2001 WO 9011795 A1 18-10-1990 US 5527293 A 18-06-1996 US 5100396 A 31-03-1992 US 5261893 A 16-11-1993
WO 0007653	A	17-02-2000	AU 5255599 A 28-02-2000 CA 2338443 A1 17-02-2000 EP 1100574 A1 23-05-2001 HU 0103545 A2 28-02-2002 JP 2002524109 T 06-08-2002 NO 20010485 A 29-01-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/44194

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0007653	A	WO 0007653 A1 US 6458109 B1	17-02-2000 01-10-2002
EP 0880953	A 02-12-1998	DE 19722075 C1 DE 29715634 U1 EP 0880953 A2 US 2002068913 A1 US 6398767 B1	01-10-1998 06-11-1997 02-12-1998 06-06-2002 04-06-2002
GB 2333965	A 11-08-1999	AU 745271 B2 AU 8993498 A CA 2303085 A1 EP 1018967 A1 WO 9913793 A1 GB 2329127 A , B JP 2002507435 T US 6216701 B1 US 6345623 B1 US 2002017304 A1	14-03-2002 05-04-1999 25-03-1999 19-07-2000 25-03-1999 17-03-1999 12-03-2002 17-04-2001 12-02-2002 14-02-2002
WO 0137922	A 31-05-2001	AU 3271601 A EP 1233808 A2 NO 20022526 A WO 0137922 A2 US 2002161317 A1	04-06-2001 28-08-2002 28-05-2002 31-05-2001 31-10-2002